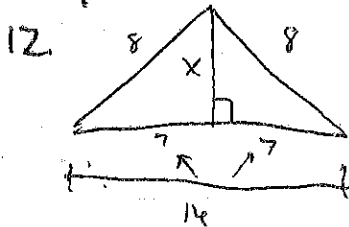


202

7.2 HW

12-16, 19, 22-24, 27

p 354

~~12-19, 22-24~~

$$8^2 = x^2 + 7^2$$

$$15 = x^2$$

$$x = \sqrt{15}$$

$$\textcircled{22} \quad 17^2 \bigcirc 8^2 + 15^2$$

$$289 = 64 + 225 \quad \text{Right}$$

$$\textcircled{23} \quad 25^2 \bigcirc 24^2 + 7^2$$

$$625 = 576 + 49 \quad \text{Right}$$

$$13. \quad 8^2 = x^2 + 4^2$$

$$64 = x^2 + 16$$

$$48 = x^2$$

$$4\sqrt{3} = x$$

$$\textcircled{24} \quad 31^2 \bigcirc 20^2 + 21^2$$

$$961 > 400 + 441$$

Obtuse

$$14. \quad x^2 = 28^2 + 26^2$$

$$x^2 = 1184$$

$$x = 4\sqrt{74} \approx 34.4$$

$$\textcircled{27} \quad \frac{\sqrt{3}}{2}, \frac{\sqrt{2}}{2}, \frac{35}{36}$$

$$.86, .7, .97$$

$$15. \quad x^2 = 40^2 + 32^2$$

$$x^2 = 2624$$

$$x = 8\sqrt{41} \approx 51.2$$

$$\left(\frac{35}{36}\right)^2 \bigcirc \left(\frac{\sqrt{3}}{2}\right)^2 + \left(\frac{\sqrt{2}}{2}\right)^2$$

$$.945 < .75 + .5$$

$$1.25$$

Acute

$$16. \quad 33^2 = x^2 + 25^2$$

$$1089 = x^2 + 625$$

$$464 = x^2$$

$$4\sqrt{29} \approx 21.5 = x$$

$$19. \quad QR = \sqrt{(3-6)^2 + (2-6)^2} = \sqrt{25} = 5$$

$$RS = \sqrt{(6-6)^2 + (6-6)^2} = 6$$

$$QS = \sqrt{(3-6)^2 + (2-6)^2} = \sqrt{25} = 5$$

$$9 + 16$$

$$6^2 \bigcirc 5^2 + 5^2$$

$$\text{Acute}$$